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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/785,116
				Filing Date	February 25, 2004
				First Named Inventor	Iris PECKER et al
				Art Unit	1652
				Examiner Name	RICHARD G. HUTSON
Sheet	1	of	33	Attorney Docket Number 27674	
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
RH	1	US-2001/0006630	05-Jul-2001	Yacobi-Zeevi et al.	
	2	US-2002/0068061	06-Jun-2002	Peretz et al.	
	3	US-2002/0088019	04-Jul-2002	Yacoby-Zeevi	
	4	US-2002/0114801	22-Aug-2002	Pecker et al.	
	5	US-2002/0168749	14-Nov-2002	Pecker et al.	
	6	US-2002/0194625	19-Dec-2002	Zcharia et al.	
	7	US-2003/0031660	13-Feb-2003	Yacobi-Zeevi et al.	
	8	US-2003/0068806	10-Apr-2003	Ayal-Hershkovitz et al.	
	9	US-2003/0161823	28-Aug-2003	Ilan et al.	
	10	US-2003/0163836	28-Aug-2003	Garofalo et al.	
	11	US-2003/0170860	11-Sep-2003	Pecker et al.	
	12	US-2003/0181687	25-Sep-2003	Peretz et al.	
	13	US-2003/0190737	09-Oct-2003	Pecker et al.	
	14	US-2003/0217375	20-Nov-2003	Zcharia et al.	
	15	US-2004/0146497	29-Jul-2004	Ilan et al.	
	16	US-2,295,323	08-Sep-1942	Armstrong	
	17	US-4,117,841	03-Oct-1978	Perrotta et al.	
	18	US-4,937,747	26-Jun-1990	Koller	
	19	US-5,360,735	01-Nov-1994	Weinshank et al.	
	20	US-5,589,604	31-Dec-1996	Drohan et al.	
	21	US-5,700,671	23-Dec-1997	Prieto et al.	
	22	US-5,714,345	03-Feb-1998	Clark	
	23	US-5,716,817	10-Feb-1998	T?rnell	
	24	US-5,799,276	25-Aug-1998	Komissarchik et al.	
	25	US-5,799,311	25-Aug-1998	Agrawal et al.	
	26	US-5,830,759	03-Nov-1998	Chang et al.	
	27	US-5,859,929	12-Jan-1999	Zhou et al.	
	28	US-5,962,721	05-Oct-1999	Gough et al.	
Examiner Signature			Date Considered	12/10/07	

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	29	US-6,140,552	31-Oct-2000	Deboer et al.	
	30	US-6,190,875	20-Feb-2001	Ben-Artzi et al.	
	31	US-6,226,792	01-May-2001	Goiffon et al.	
	32	US-6,230,151	08-May-2001	Agrawal et al.	
	33	US-6,307,965	23-Oct-2001	Aggarwal et al.	
	34	US-6,314,420	06-Nov-2001	Lang et al.	
	35	US-6,426,209	30-Jul-2002	Ayal-HersHKovitz et al.	
	36	US-6,475,763	05-Nov-2002	Ayal-HersHKovitz et al.	
	37	US-6,562,950	13-May-2003	Peretz et al.	
	38	US-6,800,441	05-Oct-2004	Pecker et al.	
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	39	EP 0254067	27-Jan-1988	Cohen et al.	
	40	EP 0998569	10-May-2000	Pecker et al.	
	41	IL 133264	30-Apr-2001	Pecker et al.	
	42	AU 735116	28-Jun-2001	Pecker et al.	
	43	AU 768820	08-Jan-2004	Ben-Artzi et al.	
	44	PCT WO 00/03036	20-Jan-2000	Ben-Artzi et al.	
	45	PCT WO 00/25817	11-May-2000	Peretz et al.	
	46	PCT WO 00/52149	08-Sep-2000	Yacobi-Zeevi	
	47	PCT WO 00/52178	08-Sep-2000	Pecker et al.	
	48	PCT WO 01/00643	04-Jan-2001	Pecker et al.	
	49	PCT WO 02/19962	14-Mar-2002	Ilan et al.	
	50	PCT WO 02/32283	25-Apr-2002	Yacoby-Zeevi	
	51	PCT WO 03/006645	23-Jan-2003	Bohlen et al.	
	52	PCT WO 88/01280	25-Feb-1988	Nicolson et al.	
	53	PCT WO 91/02977	07-Mar-1991	Fuks et al.	
	54	PCT WO 91/19197	12-Dec-1991	Nicolson et al.	
55	PCT WO 92/01003	23-Jan-1992	Nicolson et al.		
Examiner Signature				Date Considered	12/18/07

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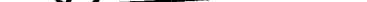
**Complete if Known**

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Sheet	3	Of	33	Attorney Docket Number	27674
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## FOREIGN PATENT DOCUMENTS

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<b>OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS</b>			
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B	68	Abaza et al. "Effects of Amino Acid Substitutions Outside An Antigenic Site on Protein Binding to Monoclonal Antibodies of Predetermined Specificity Obtained by Peptide Immunization: Demonstration With Region 94-100 (Antigenic Site 3) of Myoglobin", Journal of Protein Chemistry, 11(5): 433-444, 1992.	
	69	Abrahamsohn et al. "Implantation and Decidualization in Rodents", J. Exp. Zool., 266(6): 603-628, 1993. Abstract.	
	70	Adams et al. "Initial Assessment of Human Gene Diversity and Expression Patterns Based Upon 83 Million Nucleotides of cDNA Sequence", Nature, 377(6547): 3-174, 1995. GenBank Entry AA304653, 1997.	
	71	Agrawal "Antisense Oligonucleotides: Towards Clinical Trials", TIBTech, Trends in Biotechnology, 14: 376-387, 1996.	
	72	Albus et al. "Staphylococcus Aureus Capsular Types and Antibody Response to Lung Infection in Patients With Cystic Fibrosis", J. Clin. Microbiol., 26(12): 2505-2509, 1988. Abstract.	
	73	Allison et al. "Polysaccharide Production in Pseudomonas Cepacia", J. Basic. Microbiol., 34(1): 3-10, 1994. Abstract.	
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	75	Aoki et al. "In Vivo Transfer Efficiency of Antisense Oligonucleotides Into the Myocardium Using HVJ-Liposome Method", Biochemical and Biophysical Research Communications, 231: 540-545, 1997.	
	76	Aplin "Adhesion Molecules in Implantation", Reviews of Reproduction, 2(2): 84-93, 1997.	
	77	Armstrong et al. "Lower Airway Inflammation in Infants and Young Children With Cystic Fibrosis", Am. J. Respir. Crit. Care Med., 156(4 Pt.1): 1197-1204, 1997. Abstract.	
78	Asagoe et al. "Effect of Heparin on Infection of Cells by Equine Arteritis Virus", J. Vet. Med. Sci., 59(8): 727-728, 1997. Abstract.		
79	Aspenberg et al. "Dose-Dependent Stimulation of Bone Induction by Basic Fibroblast Growth Factor in Rats", Acta Orthop. Scand., 62(5): 481-484, 1991. Abstract.		
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RV	80	Aspenberg et al. "Fibroblast Growth Factor Stimulates Bone Formation. Bone Induction Studied in Rats", Acta Orthop. Scand., 60(4): 473-476, 1989. Abstract.			
	81	Aviezer et al. "Differential Structural Requirements of Heparin and Heparan Sulfate Proteoglycans That Promote Binding of Basic Fibroblast Growth Factor to Its Receptor", J. Biol. Chem., 269(1): 114-121, 1994.			
	82	Azghani et al. "A Beta-Linked Mannan Inhibits Adherence of Pseudomonas Aeruginosa to Human Lung Epithelial Cells", Glycobiology, 5(1): 39-44, 1995. Abstract.			
	83	Barghouthi et al. "Nonopsonic Phagocytosis of Pseudomonas Aeruginosa Requires Facilitated Transport of D-Glucose by Macrophages", J. Immunol., 154(7): 3420-3428, 1995. Abstract.			
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	85	Basu et al. "Analysis of Glycosphingolipids by Fluorophore-Assisted Carbohydrate Electrophoresis Using Ceramide Glycanase From Mercenaria Mercenaria", Analytical Biochemistry, 222: 270-274, 1994.			
	86	Bean et al. "Fertilization In Vitro Increases Non-Disjunction During Early Cleavage Divisions in A Mouse Model System", Human Reproduction, 17(9): 2362-2367, 2002. Abstract.			
	87	<del>Benathan et al. "Living Epidermal and Dermal Substitutes for Treatment of Severely Burned Patients", Rev. Med. Suisse Romande, 118(2): 149-153, 1998. Abstract. Art. in French.</del>			
	88	Bendayan "Possibilities of False Immunocytochemical Results Generated by the Use of Monoclonal Antibodies: The Example of the Anti-Proinsulin Antibody", J. Histochem. Cytochem. 43: 881-886, 1995.			
	89	Bendig et al. "Humanization of Rodent Monoclonal Antibodies by CDR Grafting", Methods in Enzymology, 8: 83-93, 1995.			
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	91	Benezra et al. "Thrombin Enhances the Degradation of Heparan Sulfate in the Extracellular Matrix by Tumor Cell Heparanase", Exptl. Cell. Res., 201: 208-215, 1992.			
	92	Benjamin et al. "A Plasticity Window for Blood Vessel Remodelling Is Defined by Pericyte Coverage of the Preformed Endothelial Network and Is Regulated by PDGF-B and VEGF", Development, 125: 1591-1598, 1998.			
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	96	Bhaskar et al. "Dysregulation of Proteoglycan Production by Intrahepatic Biliary Epithelial Cells Bearing Defective (Delta-f508) Cystic Fibrosis Transmembrane Conductance Regulator", Hepatology, 27(1): 7-14, 1998. Abstract.			
	97	<del>Bischof et al. "The Regulation of Endometrial and Trophoblastic Metalloproteinases During Blastocyst Implantation", Contracept Fertil Sex, 22(1): 48-51, 1994. Abstract. Article in French.</del>			
	98	Blanquaert et al. "CMDBS, Functional Analogs of Sulfate Heparanes, Used as Osseous Cicatrizing Agents", Ann. Endocrinol., 55(2): 121-123, 1994. Abstract.			
	99	Blanquaert et al. "Heparan-Like Molecules Induce the Repair of Skull Defects", Bone, 17(6): 499-506, 1995. Abstract.			
	100	Boat et al. "Biochemistry of Airway Mucus Secretions", Fed. Proc., 39(13): 3067-3074, 1980. Abstract.			
101	Boat et al. "Epithelial Cell Dysfunction in Cystic Fibrosis: Implications for Airways Disease", Acta Paediatr. Scand.				
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				First Named Inventor	Iris PECKER et al
				Art Unit	1652
				Examiner Name	RICHARD G. HUTSON
Sheet	7	Of	33	Attorney Docket Number	27674
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R D	102	Bork "Go Hunting in Sequence Databases But Watch Out for the Traps", Trends in Genetics, 12(10): 425-427, 1996.			
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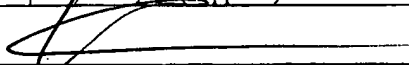
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	127	Dasgupta et al. "Reduction in Viscoelasticity in Cystic Fibrosis Sputum In Vitro Using Combined Treatment With Nacystelyn and RhDNase", Pediatric Pulmonology, 22: 161-166, 1996.			
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	172	Guriec et al. "CD44 Isoforms With Exon V6 and Metastasis of Primary N0M0 Breast Carcinomas", Breast Cancer Res. Treat., 44(3):261-268, 1997. Abstract.			
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				Filing Date	February 25, 2004
				First Named Inventor	Iris PECKER et al
				Art Unit	1652
				Examiner Name	RICHARD G. HUTSON
Sheet	13	Of	33	Attorney Docket Number	27674
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	173	Hagiwara et al. "Inhibitory Effect of Heparin on Red Blood Cell Invasion by Theileria Sergenti Merozoites", Int. J. Parasitol., 27(5): 535-539, 1997. Abstract.			
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	179	Hatch et al. "Alginate Lyase Promotes Diffusion of Aminoglycosides Through the Extracellular Polysaccharide of Mucoic Acid Pseudomonas Aeruginosa", Antimicrob. Agents. Chemother., 42(4): 974-977, 1998. Abstract.			
	180	Hayward et al. "Cellular Mechanisms of Heparinase III Protection in Rat Traumatic Shock", American Journal of Physiology, 275: H23-H30, 1998.			
	181	Herrera et al. "Mediation of Trypanosoma Cruzi Invasion by Heparan Sulfate Receptors on Host Cells and Penetrin Counter-Receptors on the Trypanosomes", Molecular & Biochemical Parasitology, 65(1): 73-83, 1994. Abstract.			
	182	Hida et al. "Antisense E1AF Transfection Restrains Oral Cancer Invasion by Reducing Matrix Metalloproteinase Activities", Am. J. Pathol., 50(6): 2125-2132, 1997. Abstract.			
	183	Hill et al. "Organ-Specific Over-Sulfation of Glycosaminoglycans and Altered Extracellular Matrix in A Mouse Model of Cystic Fibrosis", Biochem. Mol. Med., 62(1): 113-122, 1997. Abstract.			
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	184	Hillier et al. "The WashU-Merck EST Project" GenBank Entry N32056, 1996.			
	185	Hillier et al. "The WashU-Merck EST Project", Database EMBL Accession No. N45367, XP 002198420, 1996. Abstract.			
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	196	Jackson "The Use of Polyacrylamide-Gel Electrophoresis for the High-Resolution of Separation of Reducing Saccharides Labelled With the Fluorophore 8-Aminonaphthalene-1, 3, 6-Trisulphonic Acid", Biochem J., 270: 705-713, 1990.			
	197	Jayaraman et al. "Rational Selection and Quantitative Evaluation of Antisense Oligonucleotides", Biochimica et Biophysica Acta, 1520: 105-114, 2001.			
	198	Jin et al. "Immunochemical Localization of Heparanase in Mouse and Human Melanomas", International Journal of Cancer, 45: 1088-1095, 1990.			
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	202	Jusa et al. "Effect of Heparinon on Infection of Cells by Porcine Reproductive and Respiratory Syndrome Virus", American Journal of Vet. Res., 58(5): 488-491, 1997. Abstract.			
	203	Kang et al. "Prolactin-Inducible Enhancer Activity of the First Intron of the Bovine beta-Casein Gene", Mol. Cells, 8(3): 259-265, 1998. Abstract.			
	204	Kato et al. "Physiological Degradation Converts the Soluble Syndecan-1 Ectodomain From An Inhibitor to A Potent Activator of FGF-2", Nature Medicine, 4(6): 691-697, 1998.			
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	207	Kiberstis et al. "Bone Health in the Balance", Science, 289: 1497, 2000.			
	208	Kizaki et al. "Cloning and Localization of Heparanase in Bovine Placenta", Placenta, 24: 424-430, 2003.			
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	234	Liu et al. "Live Offspring by In Vitro Fertilization of Oocytes From Cryopreserved Primordial Mouse Follicles After Sequential In Vivo Transplantation and In Vitro Maturation", Biology of Reproduction, 64: 171-178, 2001. Abstract.			
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	245	Matoba et al. "Evaluation of Omental Implantation for Perforated Gastric Ulcer Therapy: Findings in A Rat Model", J. Gastroenterol., 31(6): 777-784, 1996. Abstract.			
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	256	Mohapatra et al. "Alteration of Sulfation of Glycoconjugates, But Not Sulfate Transport and Intracellular Inorganic Sulfate Content in Cystic Fibrosis Airway Epithelial Cells", <i>Pediatr. Res.</i> , 38(1): 42-48, 1995. Abstract.			
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				Examiner Name	RICHARD G. HUTSON
Sheet	24	Of	33	Attorney Docket Number	27674
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	315	Shastry "Gene Disruption in Mice: Models of Development and Disease", Molecular and Cellular Biochemistry, 181: 163-179, 1998.			
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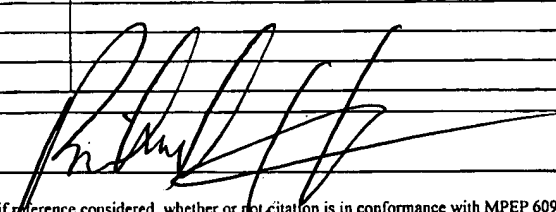
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10/785,116
				Filing Date	February 25, 2004
				First Named Inventor	Iris PECKER et al
				Art Unit	1652
				Examiner Name	RICHARD G. HUTSON
Sheet	30	Of	33	Attorney Docket Number	27674
<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	371	Bar-Ner et al., "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparan Sulphate by Non-Anticoagulant Heparin Species", Blood, 70(2): 551-557, 1987.			
	372	Savitsky et al., "Ataxia-Telangiectasia: Structural Diversity of Untranslated Sequences Suggests Complex Post-Transcriptional Regulation of ATM Gene Expression", Nucleic Acids Research, 25(9): 1678-1684, 1997.			
	373	Haimovitz-Friedman et al., "Activation of Platelet Heparitinase by Tumor Cell-Derived Factors", Blood, 78(3): 789-796, 1991.			
	374	Gospodarowicz et al., "Stimulation of Corneal Endothelial Cell Proliferation In Vitro by Fibroblast and Epidermal Growth Factors", Exp. Eye Res., 25: 75-89, 1977.			
	375	Ernst et al., "Enzymatic Degradation of Glycosaminoglycans", Crit. Rev. in Biochemistry and Molecular Biology, 30(5): 387-444, 1995.			
	376	Zhong-Sheng et al., "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-Enriched Remnant Lipoproteins by Cultured Cells", J. Biol. Chem., 268(14): 10160-10167, 1993.			
	377	Ross, "The Pathogenesis of Atherosclerosis: A Perspective for the 1990s", Nature, 362: 801-809, 1993.			
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	379	Cordon-Cardo et al., "Expression of Basic Fibroblast Growth Factor in Normal Human Tissue", Laboratory Investigation, 63(6): 832-840, 1990. Abstract.			
	380	Narindrasorasak et al., "High Affinity Interactions Between the Alzheimer's ?-Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", J. Biol. Chem., 266(20): 12878-12883, 1991.			
	381	Chen et al., "Dengue Virus Infectivity Depends on Envelope Protein Bin to Target Cell Heparan Sulfate", Nature Medicine, 3(8): 866-871, 1997.			
	382	Shieh et al., "Cell Surface Receptors for Herpes Simplex Virus Are Heparan Sulfate Proteoglycan Proteoglycans", J. Cell. Biol., 116(5): 1273-1281, 1992.			
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				Art Unit	1652
				Examiner Name	RICHARD G. HUTSON
Sheet	31	Of	33	Attorney Docket Number	27674
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	384	Rapraeger et al., "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", Science, 252: 1705-1709, 1991.			
	385	Lider et al., "A Disaccharide That Inhibits Tumor Necrosis Factor ? Is Formed From the Extracellular Matrix by the Enzyme Heparanase", Proc. Natl. Acad. Sci. USA, 92: 5037-5041, 1995.			
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	387	Gitay-Goren et al., "The Binding of Vascular Endothelial Growth Factor to Its Receptors Is Dependent on Cell Surface-Associated Heparin-Like Molecules", Journal of Biological Chemistry, 267(9): 6093-6098, 1992.			
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	394	Vlodavsky et al., "Morphological Appearance, Growth Behaviour and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix Versus Plastic", Cell, 19: 607-616, 1980.			
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Sheet	32	Of	33	Attorney Docket Number	27674

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

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	395	Vlodavsky et al., "Lymphoma Cell-Mediated Degradation of Sulfated Proteoglycans in the Subendothelial ExtraCellular Matrix: Relationship to Tumor Cell Metastasis", Cancer Research, 43: 2704-2711, 1983.	
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	397	Vlodavsky et al., "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", Isr. J. Med. Sci., 24(9-10): 464-470, 1988.	
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	400	Bashkin et al., "Basic Fibroblast Growth Factor Binds to Subendothelial ExtraCellular Matrix and Is Released by Heparitanase and Heparin-Like Molecules", Biochemistry, 28: 1737-1743, 1989.	
	401	Ishai-Michaeli et al., "Heparanase Activity Expressed by Platelets, Neutrophils, and Lymphoma Cells Releases Active Fibroblast Growth Factor From Extracellular Matrix", Cell Regulation, 1: 833-842, 1990.	
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	403	Folkman et al., "A Heparin-Binding Angiogenic Protein - Basic Fibroblast Growth Factor - Is Stored Within Basement Membrane", Am. J. Pathology, 130(2): 393-400, 1988.	
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	406	Liotta et al., "Tumor Invasion and the ExtraCellular Matrix", Laboratory Investigation, 49(6): 636-647, 1983.	

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